

**This Page Is Inserted by IFW Operations  
and is not a part of the Official Record**

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 5 972 463 A (MARTIN PHILIP G ET AL) 26 October 1999 (1999-10-26) * column 5, line 7; - column 9, line 21 * * column 13, line 55-63 * * column 17, line 31-65; figures 1B,3,4; example 3 *	1-12	D04H3/16
A	US 3 936 337 A (STAPP HANS) 3 February 1976 (1976-02-03) * column 2, line 44-52; figures 1,2 *	1,8	
A	US 4 172 174 A (TAKAGI SADA AKI) 23 October 1979 (1979-10-23) * column 2, line 57-59 * * column 9, line 50-55; figure 9 *	1,6,8,9	
A	US 5 879 776 A (NAKATA AKIRA) 9 March 1999 (1999-03-09) * column 3, line 4-6; figure 11; example 4 *	1,8	
A	US 3 687 759 A (WERNER HELMUT ET AL) 29 August 1972 (1972-08-29) * the whole document *	1-12	TECHNICAL FIELDS SEARCHED (Int.Cl.7) D04H
A	US 4 351 683 A (KUSILEK LEROY I) 28 September 1982 (1982-09-28) * column 5, line 10-13; claim 1; figures 1,2 *	1,8	
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 28 November 2001	Examiner Foulger, C
<div>CATEGORY OF CITED DOCUMENTS</div> <div>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</div> <div>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</div>			

# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 85 0141

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-11-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5972463 A	26-10-1999	AU 704040 B2	15-04-1999
		AU 5542596 A	11-12-1996
		BR 9609225 A	15-06-1999
		CA 2219237 A1	28-11-1996
		CN 1185816 A	24-06-1998
		EP 0828871 A2	18-03-1998
		JP 11505892 T	25-05-1999
		WO 9637644 A2	28-11-1996
		US 6080482 A	27-06-2000
		US 5811186 A	22-09-1998
US 3936337 A	03-02-1976	DE 2362856 A1	26-06-1975
		GB 1474047 A	18-05-1977
		FR 2254968 A7	11-07-1975
US 4172174 A	23-10-1979	JP 1408319 C	27-10-1987
		JP 54137546 A	25-10-1979
		JP 62018191 B	21-04-1987
		JP 1372942 C	07-04-1987
		JP 53135775 A	27-11-1978
		JP 61036954 B	21-08-1986
		JP 54042472 A	04-04-1979
		JP 1082941 C	29-01-1982
		JP 54042473 A	04-04-1979
		JP 56022982 B	28-05-1981
		AR 222473 A1	29-05-1981
		AT 358388 B	10-09-1980
		AT 309478 A	15-01-1980
		AU 543617 B2	26-04-1985
		AU 3554278 A	01-11-1979
		BR 7805880 A	02-05-1979
		CA 1079943 A1	24-06-1980
		CH 627802 A5	29-01-1982
		DE 2819080 A1	09-11-1978
		FR 2388913 A1	24-11-1978
		GB 1602159 A	11-11-1981
		IT 1156716 B	04-02-1987
		SE 438663 B	29-04-1985
		SE 7804635 A	16-05-1978
US 5879776 A	09-03-1999	JP 2684002 B2	03-12-1997
		JP 7039509 A	10-02-1995
		CA 2127149 A1	28-01-1995
		CN 1109727 A	11-10-1995
		DE 69424603 D1	29-06-2000
		DE 69424603 T2	15-02-2001

# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 85 0141

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-11-2001

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5879776	A		EP 0636331 A2	01-02-1995
			KR 9707675 B1	15-05-1997
			KR 9704520 Y1	13-05-1997
			SG 54234 A1	16-11-1998
			US 5720838 A	24-02-1998
			US 5624740 A	29-04-1997
US 3687759	A	29-08-1972	DE 1778026 A1	15-07-1971
			US 3852152 A	03-12-1974
			AT 308997 B	15-06-1973
			BE 727924 A	16-07-1969
			CA 919881 A1	30-01-1973
			CH 474983 A	15-07-1969
			DK 120175 B	19-04-1971
			ES 176311 Y	01-04-1973
			ES 363374 A1	16-12-1971
			FR 2004358 A5	21-11-1969
			GB 1224451 A	10-03-1971
			JP 50008382 B	03-04-1975
			LU 58204 A1	11-07-1969
			NL 6904105 A	23-09-1969
			SE 362056 B	26-11-1973
US 4351683	A	28-09-1982	DE 1922460 A1	12-11-1970
			US 3837988 A	24-09-1974
			FR 1586539 A	20-02-1970
			GB 1247373 A	22-09-1971
			MY 14388 A	31-12-1988